

What is claimed is:

1. A bulb of an electrodeless lamp system using stannum (Sn) as a primary bulb fill in order to continuous spectrum in discharging.
- 5 2. The bulb of claim 1, wherein the primary bulb fill is a halogenide of the Sn.
3. The bulb of claim 2, wherein the halogenide of the Sn is stannum  
10 bromide (SnBr<sub>2</sub>).
4. The bulb of claim 1, wherein filling amount of the primary bulb fill is within a range of 0.005 ~ 0.1 mol/cc.
- 15 5. The bulb of claim 1, wherein buffer gas filled in the bulb for contributing initial discharging includes at least one or more among Ne, Ar, Kr and Xe.
6. The bulb of claim 1, wherein auxiliary bulb fill filled in the bulb is  
20 mercury for stablizing the discharge and changing the spectrum.
7. The bulb of claim 6, wherein the mercury is added to be an amount within a range of  $10^{-7}$  ~  $10^{-3}$  mol/cc.
- 25 8. The bulb of claim 1, wherein the capacity of the bulb has 50

watt/cc or more power consumption concentration.

9. An electrodeless lamp system comprising:  
a microwave generator for generating microwave by being supplied power  
5 source;  
a resonator blocking the generated microwave and transmitting emitted  
light; and  
a bulb, in which filled luminescent material becomes plasma by the  
generated microwave to generate the light,  
10 wherein the bulb includes a primary bulb fill in order to obtain continued  
spectrum in discharging.

10. The system of claim 9, wherein the primary bulb fill is stannum  
(Sn).  
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11. The system of claim 9, wherein the primary bulb fill is halogenide  
of Sn.

12. The system of claim 11, wherein the halogenide of Sn is stannum  
20 bromide ( $\text{SnBr}_2$ ).

13. The system of claim 9, wherein the primary bulb fill is filled within  
a range of 0.005 ~ 0.1 mol/cc.

25 14. The system of claim 9, wherein buffer gas filled in the bulb for

contributing to initial discharging includes at least one or more among Ne, Ar, Kr and Xe.

15. The system of claim 9, wherein mercury is added in the bulb as an  
5 auxiliary bulb fill for stabilizing the discharge and for changing the spectrum.

16. The system of claim 15, wherein the amount of mercury is within a range of  $10^{-7} \sim 10^{-3}$  mol/cc.

10 17. The system of claim 9, wherein the capacity of the bulb has 50 watt/cc or more power consumption concentration.

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